

Dec 19th 1881.

To Hon A Loudon Snowden

Superintendent U.S Mint at Phil^a

Dear Sir

In reply to your communication of Dec 8
as to the operations of the Engine and Electric
Machines, The effect of light, and a comparison
between the Electric and Gas lights as illumin-
-nators.

I would say: first, the engine which supplies
the electric machines with motion, is 9 inch
diam. of cylinder, 16 inch stroke of piston 60 lbs
pressure on boilers making 280 turns per minute
equal to about 60 horse power. After having
some defects remedied, I find it in first
class order fully capable of giving us all the
power we want for the Electric Machines in
use. The shafting, counter-shafting and pulleys
transmitting the motion and power to the
Electric Machines is first class in every
particular

The machines for generating the Electric light are four in number, two (2) for the [arc] and two (2) for the Incandescent lights - one of the machines for incandescent is a regulator.

The Ark light machines furnish electricity for ten lamps all of which we have in operation and in my opinion we could add one more lamp with safety. The Incandescent machines furnish light for 60 lamps and if necessary could add three more lamps, all of which are in elegant working order and gives a far superior light to gas. In the Adjusting room where the Incandescent light is used all of the Ladies with one or two exceptions prefer this light and think it is a benefit instead of an injury to the eyes.

The Ark lights in the different rooms are found to be superior to any lights used and for seeing metal on the floor of the Rolling room is far superior to day light.

And would say that the men generally
wish that your Honor would retain this
light in preference to Gas

I wish to bring to your notice that a
few careless persons leave the gas burning
when the Electric light is in use and an
order issued from your office would over-
come this trouble

And in connection with this subject I would
like to bring to your consideration two
persons, Philip Dickel and Samuel
Hines. Dickel is at the engine now is
a very careful steady man would like
it if you could consistently advance
his pay. Sam Hines it has put a
grat deal more work on him would ask for
him the same favorable consideration.
All of which I submit to you hoping I have
made it plain

I remain Yours Truly
John L McGinnis
Chief Engineer

N. S. Elliott
Philadelphia
(Dec. 19/81)

John L. McEwan
Chief Engineer

Report on the
Electric Light &
Apparatus.

Rec'd Dec. 19th 1881.

[Abstract:] Report on the Electric Light & Apparatus.

December 19, 1881

To Hon. A. Loudon Snowden
Superintendent U.S. Mint at Phila.

Dear Sir

In reply to your communication of Dec. 8 as to the operations of the Engine and Electric Machines, the effect of light, and a comparison between the Electric and Gas lights as illuminators.

I would say: first, the engines which supplies the electric machines with motion, is 9 inch diam. of cylinder, 16 inch stroke of piston 60 lbs. pressure on boilers making 280 turns per minute equal to about 60 horse power. After having some defects remedied, I find it in first class order fully capable of giving us all the power we want for the Electric Machines in use. The shafting, counter & shafting and pulleys transmitting the motion and power to the Electric Machines is first class in every particular.

The machines for generating the Electric light are four in number, two (2) for the [arc] and two (2) for the Incandescent lights – one of the machines for incandescent is a regulator.

The Ark light machines furnishes electricity for ten lamps all of which we have in operation and in my opinion we could add one more lamp with safety. The incandescent machines furnish light for 60 lamps and if necessary could add three more lamps, all of which are in elegant working order and gives a far superior light to gas. In the Adjusting room where the Incandescent light is used all of the Ladies with one or two exceptions prefer this light and think it is a benefit instead of an injury to the eyes.

The Ark lights in the different rooms are found to be superior to any lights used and for seeing metal on the floor of the Rolling room is far superior to day light and would say that the men generally wish that your Honor would retain this light in preference to Gas.

I wish to bring to your notice that a few careless persons leaves the gas burning when the Electric light is in use and an order issued from your office would overcome this trouble.

And in connection with this subject I would like to bring to your consideration two persons, Philip Dickel and Samuel Hines. Dickel is at the engine now is a very careful steady man would like it if you could consistently advance his pay. Saml. Hines it has put a great deal more work on him would ask for him the same favorable consideration. All of which I submit to you hoping I have made it plain.

I remain yours Truly
John McGinnis
Chief Engineer